



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

228-744

Date of Issuance:

4/5/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Q-Ball Herbicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 228-744."

Signature of Approving Official:

Reuben Baris, Product Manager 25  
Herbicide Branch, Registration Division (7505P)

Date:

4/5/19

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 3/28/2019
- Alternate CSF 1 dated 3/28/2019

If you have any questions, please contact Emily Schmid at 703-347-0189 or by email at [schmid.emily@epa.gov](mailto:schmid.emily@epa.gov).

Enclosure

# Q-Ball™ Herbicide

**For selective control of broadleaf and grasses in residential and nonresidential turfgrass**

<b>ACTIVE INGREDIENT:</b>	
dimethylamine salt of quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid.....	18.92%*
<b>OTHER INGREDIENTS:</b> .....	81.08%
<b>TOTAL:</b> .....	100.00%

\*Equivalent to: 1.50 lbs. quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid per gallon (15.98% ae).

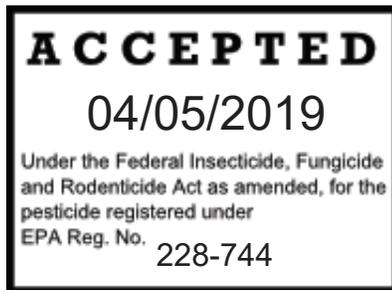
**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**SEE BELOW [INSIDE BOOKLET] [BACK PANEL] FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS [AND] [DIRECTIONS FOR USE]**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	



EPA REG. NO. 228-744  
EPA EST. NO. \_\_\_\_\_

Manufactured for  
**NUFARM AMERICAS INC.**  
11901 S. Austin Ave  
Alsip, IL 60803

NET WEIGHT: \_\_\_\_\_

000228-00774.20190401

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved short and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENGINEERING CONTROLS**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not mix or allow contact with oxidizing agents as hazardous reaction may occur.

**ENVIRONMENTAL HAZARDS**

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Keep out of lakes, ponds, and streams. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water by cleaning of equipment or disposal of rinsate.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with this labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through spray drift. Only protected handlers may be in the specified area during application.

For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, and water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton
- Shoes plus socks

### NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouses. Professional applications to residential and nonresidential turf are within the scope of nonagricultural Worker Protection Standards.

**DO NOT enter or allow others to enter the treated area until sprays have dried.**

### PRODUCT INFORMATION

This product may be applied postemergence to residential and nonresidential turf grasses for the control of selected broadleaf and grass weeds. Use sites include: grounds or lawns around residential and commercial establishments, multifamily dwellings, Military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, and sod farms.

#### Mode of Action

This product is a Group 4 herbicide. It is absorbed by foliage and roots and translocated throughout the plant. The control symptoms exhibited by broadleaf weeds include leaf and stem curl or twisting, and chlorosis. Susceptible grasses demonstrate stunting, chlorosis, and gradual reddening followed by necrosis and death.

### RESISTANCE MANAGEMENT

For resistance management, this product is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to this herbicide and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 4 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use, and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or pest control advisor for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of turf and weed biotypes.
- For further information or to report suspected resistance, contact Nufarm at 1-800-345-3330.

### APPLICATION INFORMATION

#### USE RESTRICTIONS

- DO NOT apply more than 128 fl. oz. (2.9 fl. oz. per 1000 sq. ft.) per year (1.5 lb. ae per acre per year).
- Do not apply more than 64 fl. oz. (1.45 fl. oz. per 1000 sq. ft.) per year (0.75 lb. ae per acre per application).
- DO NOT apply to golf course collars or greens.
- DO NOT make applications of this product to drought-stressed turfgrass and/or drought-stressed weeds.
- DO NOT apply this product to fine fescue unless it is part of a seed blend.
- DO NOT apply this product to Bahiagrass, carpetgrass, St. Augustinegrass, centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- DO NOT apply this product into any ornamental bed.
- DO NOT apply this product within 4 weeks after seedling emergence of Kentucky bluegrass, creeping bentgrass, fine fescue blends and perennial ryegrass.
- DO NOT apply this product prior to and within 2 weeks after seeding seashore paspalum.
- DO NOT use clippings from this product as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.
- DO NOT plant eggplants or tobacco within 12 months to areas treated with this product.
- DO NOT plant tomatoes or carrots within 24 months to areas treated with this product.
- Apply as a medium or coarser spray (ASABE standard S-572.1)
- Do not release spray at a height greater than 30 inches above the ground.
- Use a lawn-type sprayer with coarse spray because wind drift is less likely.
- DO NOT apply this product when wind speed is greater than 10 MPH.

- DO NOT discard rinsate from this product on or near desirable plants.
- DO NOT apply this product by air.
- DO NOT apply this product through any type of irrigation system.
- For use in New York State by spot treatment only.
- DO NOT sell, distribute, or use in Nassau and Suffolk counties in New York.

#### USE PRECAUTIONS

- Avoid mist and spray onto vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants, especially plants belonging to the Solanaceae family, such as tomatoes, eggplants, and bell peppers.
- Avoid applications to exposed feeder roots of trees or ornamentals. Be particularly careful within the drip line of trees and other ornamental species.

Apply this product to actively growing weeds as a broadcast or spot spray to the turf species at the applications rates for the weed growth stages indicated in Tables 1, 2, and 3.

For best results, weeds should not be growing under stress from lack of water, excessive water, low fertility, mowing shock, excessive hot or cold temperatures, or injury from other herbicide applications.

To achieve the most consistent weed control, add a methylated seed oil (MSO) to this product. Refer to Tables 2 and 3 for rates. However, adding adjuvants such as a MSO may cause slight leaf burn, but new growth is normal, and turf vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high. Additional stress from low mowing heights may also increase the possibility of turf injury. Chelated iron or sprayable soluble nitrogen fertilizer will reduce a slight yellowing that may occur on some turf-grass species. Not all chelated iron or sprayable nitrogen fertilizers are compatible with this product. Always perform a compatibility test to ensure proper mixing. See Compatibility Test for Mix Components section of label for directions.

**Spot Applications:** Postemergence spot applications may be made to susceptible weeds in turf grass that is tolerant to this product (see Tables 1 and 2). Apply 1.45 fluid ounces (0.75 lb. ae) of this product per 1000 square feet of treated area. Spray coverage should be uniform and complete. See Table 5 for spot spray mix instructions.

**For Use in New York State by spot treatment only:** Spray individual weeds only. Adjust the sprayer to coarse spray to minimize wind drift. Apply to the center of the weed and spray to lightly cover.

**Mowing Information:** For optimal control avoid mowing 2 days before or after applying this product. Clippings from the first three mowings after application should be left on the treated area.

**Irrigation and Rainfall:** If soil moisture is not sufficient prior to application of this product, irrigation may improve weed control. For best results, do not water or irrigate treated turf for 24 hours after application. If rainfall does not occur in 2 to 7 days after application, irrigation of at least 1/2 inch is desirable.

**Seeding/Overseeding/Sprigging:** The use of this product before or after seeding or over-seeding a turf area will not significantly interfere with the turf grass seed germination and growth of those grass types identified as tolerant or moderately tolerant in Table 1. Consult Table 4 for timing of applications concerning any seeding, overseeding or sprigging situation.

#### SPRAYING INSTRUCTIONS

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 10 gallons of water per acre or at least 0.25 gallon per 1,000 sq ft). Use low pressure sprayers at 20 to 40 psi. Maintain continuous agitation while spraying with good mechanical or bypass agitation. Nozzle screens must be no finer than 50 mesh. Check sprayer routinely to determine proper calibration. Flat fan, flood or cone nozzles may be used. Nozzles should be arranged to obtain uniform coverage for turf and weeds to be controlled. Boom height, nozzle selection, and pressure should be adjusted to provide uniform coverage and minimize spray drift. Avoid overlaps that will increase rates above those labeled for use.

**Procedure for Cleaning Spray Equipment:** Before and after applying this product, clean the application equipment thoroughly using a strong detergent or commercial sprayer cleaner. Follow manufacturer's directions.

#### ADDITION OF ADJUVANTS

**Additives in Spray Mix to Achieve Control:** Methylated seed oil is the preferred adjuvant for post-emergence applications. However, if an MSO is not available in your region, the use of a crop oil concentrate or other high quality surfactant must be used in the spray tank at the time of application. (Refer to actual product label for use rates and directions.)

Additives should not be used when tank mixing with Emulsifiable Concentrate (EC) products as turf phytotoxicity may occur.

The methylated seed oil or crop oil concentrate used as the adjuvant with this product must meet all the following criteria:

- Nonphytotoxic
- Contain only EPA-exempt ingredients
- Provide good mixing quality in the jar test
- Successful in local experience

The exact composition of suitable products will vary. Any methylated seed oil or crop oil concentrate used should contain emulsifiers to provide good mixing quality.

## MIXING INSTRUCTIONS

1. Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water.
2. Maintain constant agitation throughout mixing and application.
3. If an inductor is used, rinse it thoroughly after each component has been added.
4. Products in PVA bags: Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
6. Water-soluble products (such as this product).
7. Emulsifiable concentrates (such as methylated seed oil or crop oil concentrate).
8. Water-soluble additives (such as chelated iron or soluble nitrogen fertilizer when applicable; not all chelated iron or sprayable nitrogen fertilizers are compatible with this product. Always perform a compatibility test to ensure proper mixing. See *Compatibility Test for Mix Components* section of label for directions.
9. Remaining quantity of water
10. Maintain constant agitation during application.

### Backpack Sprayer:

Begin with a clean spray tank. Fill the spray tank 1/2 full with clean water and add the required amount of this product to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and add appropriate amount of methylated seed oil. Cap sprayer and agitate once again. Uncap sprayer and finish filling tank to desired level. During application, it is desirable to agitate the mixture on occasion to ensure mixing.

If the mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed.

### COMPATIBILITY TEST FOR TANK MIXTURE COMPONENTS

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled rate per acre.

1. Water - For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
2. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
3. Boron- containing fertilizers can be incompatible with PVA material. If a boron fertilizer is intended to be used, cap the jar and invert 10 cycles.
4. Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) - Cap the jar and invert 10 cycles.
5. Water-soluble products (this product) - Cap the jar and invert 10 cycles.
6. Emulsifiable concentrates (methylated seed oil) - Cap the jar and invert 10 cycles.
7. Water-soluble additives - Cap the jar and invert 10 cycles.
8. Let the solution stand for 15 minutes.
9. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface nor thick (clabbered) texture. For WG or WP products, a fine precipitate that is easily resuspended is normal; large, nondispersible particles (>300 microns) that precipitate on standing are a sign of tank mix incompatibility. DO NOT use any spray solution that could clog spray nozzles.

### TURFGRASS TANK MIXES

Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

To increase spectrum of control of broadleaf weed species, a tank mixture with labeled turfgrass herbicides may be used.

For sedge control, applications of this product with *Prosege*<sup>TM</sup> 2 or *Celero*<sup>®</sup> may be made. Consult labels for turf grass tolerance when tank mixing. Separate applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or turf injury may result from mixing this product with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.

Before tank mixing, a simple jar test is required to ensure compatibility of herbicides or other pesticides and/or additives. Refer to manufacturer's labels for specific use directions, precautions, and limitations before tank mixing with this product, and follow those that are most restrictive.

Table 1. Turf Tolerance (Established Grasses)*		
Highly Tolerant	Moderately Tolerant	Susceptible
Bermudagrass, common <sup>1</sup> Bluegrass, annual Bluegrass, Kentucky Buffalograss Fescue, tall Ryegrass, annual Ryegrass, perennial Zoysiagrass	Bentgrass, creeping <sup>1</sup> Bermudagrass, hybrid <sup>1</sup> Bluegrass, rough (Poa trivialis) Fescue, Chewing's Fescue, fine <sup>2</sup> Fescue, hard Fescue, red Paspalum, seashore	Bahiagrass Bentgrass, colonial Bentgrass, seaside Centipedegrass Dichondra St. Augustinegrass
<sup>1</sup> Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer (see <i>APPLICATION INFORMATION</i> and <i>ADDITION OF ADJUVANTS</i> sections of this label).		
<sup>2</sup> Apply this product to fine fescue only when it is part of a blend.		
*DO NOT use on golf course greens and collars.		
Consult <i>Table 4. Seeding/Overseeding/Sprigging Timing Chart</i> for this situation.		

Table 2. Application to Established Creeping Bentgrass		
Turfgrass Species	Application Rate/Timing	Additive Rate
Bentgrass, creeping <sup>1,2</sup>	<ul style="list-style-type: none"> <li>This product must be applied in 2 to 3 split applications at 0.5 to 1.0 fl. oz. per 1000 sq. ft. (0.26 to 0.52 lb. ae/A).</li> <li>Do not apply more than 2.9 fl. oz./1000 sq. ft. (1.5 lb. ae/A) per year.</li> <li>Time sequential application(s) 14 to 21 days apart.</li> </ul>	Use methylated seed oil at 0.55 fl. oz. per 1000 sq. ft. (1.5 pts./A)
Bentgrass, creeping <sup>1,3</sup>	<ul style="list-style-type: none"> <li>This product must be applied in 2 to 3 split applications at 0.65 to 1.0 fl. oz. per 1000 sq. ft. (0.34 to 0.52 lb. ae/A)</li> <li>Do not apply more than 2.9 fl. oz./1000 sq. ft. (1.5 lb. ae/A) per year.</li> <li>Time sequential application(s) 14 to 21 days apart.</li> </ul>	
<sup>1</sup> Turfgrass yellowing can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer (see <b>APPLICATION INFORMATION</b> and <b>ADDITION OF ADJUVANTS</b> ).		
<sup>2</sup> Not for use at this rate range in California.		
<sup>3</sup> This rate range for use only in California.		
DO NOT use on golf course greens and collars. DO NOT exceed 128 fl. oz. (1.5 lb. ae) of this product per acre per year.		
Consult <i>Table 4. Seeding/Overseeding/Sprigging Timing Chart</i> for this situation.		

Table 3. Application Rates and Timing for Postemergence Weed Control in Turf			
Weed Species		This Product's Rate	Additive Rate
<b>Grasses Controlled</b>		<b>Broadcast Applications</b> Apply 4 pts (0.75 lb. ae) of this product per acre  <b>Spot Applications</b> Apply 1.45 fl. oz. (0.75 lb. ae) of this product per 1000 sq. ft. of treated area  Refer to footnotes in Tables 2 and 3 for specific turfgrass or weed instructions.	Use methylated seed oil at 0.5 fl. oz. per 1000 sq. ft. or 1.5 pts./A.
<b>Common Name</b> Barnyardgrass Crabgrass, large <sup>1,4</sup> Crabgrass, smooth <sup>1,4</sup> Foxtail, giant <sup>1</sup> Foxtail, green <sup>1</sup> Foxtail, yellow <sup>1</sup> Kikuyugrass <sup>2</sup> Signalgrass, Broadleaf <sup>1</sup> Torpedograss <sup>3</sup>	<b>Scientific Name</b> <i>Echinochloa crusgalli</i> <i>Digitaria sanguinalis</i> <i>Digitaria ischaemum</i> <i>Safari faberi</i> <i>Setari viridis</i> <i>Setari glauca</i> <i>Pennisetum dandestinum</i> <i>Brachiaria platyphylla</i> <i>Panicum repens</i>		
<b>Broadleaf Weeds Controlled</b>			
<b>Common Name</b> Bindweed, field Clover, hop Clover, red Clover, white Daisy, English <sup>2,5</sup> Dandelion, common <sup>2</sup> Dollarweed Geranium, Carolina Medic, black Morningglory spp. Speedwell, common Speedwell, slender Speedwell, thymeleaf Violet, wild	<b>Scientific Name</b> <i>Convolvulus arvensis</i> <i>Trifolium aureum</i> <i>Pollich</i> <i>Trifolium pratense</i> <i>Trifolium repens</i> <i>Bellis perenne</i> <i>Taraxacum officinale</i> <i>Hydrocotyle Umbellate</i> <i>Geranium carolinium</i> <i>Medicago lupulina</i> <i>Ipomea</i> sp. <i>Veronica officinalis</i> <i>Veronica filiformis</i> <i>Veronica serpyllifolia</i> <i>Viola</i> sp.		
<sup>1</sup> Under certain conditions, application of this product made to annual grasses at 2 to 4 tiller may not provide complete control. A sequential application will be required for grass control in these situations. Optimum control is achieved when applications of this product + methylated seed oil are applied either before second tiller or as weed grasses mature. <sup>2</sup> Tank mix partner or sequential application required. <sup>3</sup> Make 2 sequential applications of 1.0 fl. oz. (0.52 lb. ae/A) per 1000 sq. ft. and an additional sequential application up to 0.90 fl. oz. (0.47 lb. ae/A) per 1000 sq. ft. at 14- to 21-day intervals. <sup>4</sup> Biotypes of large and smooth crabgrass in California have shown varied response to this product. If control failure occurs following a full or split application, DO NOT reapply this product. Change to a herbicide with a different mode of action. <sup>5</sup> NOT FOR USE to control this weed in California.			

<b>Table 4. Seeding/Overseeding/Sprigging Timing Chart<sup>1</sup></b>					
<b>Variety</b>	<b>Before seeding<sup>2</sup></b>	<b>At seeding</b>	<b>7 days after emergence</b>	<b>14 days after emergence</b>	<b>28 days after emergence</b>
Annual bluegrass	OK	OK	OK	OK	OK
Annual ryegrass	OK	OK	OK	OK	OK
Buffalograss	OK	OK	OK	OK	OK
Common Bermudagrass <sup>3</sup> (for sprigging see footnote 3)	OK	OK	OK	OK	OK
Creeping bentgrass	OK	NO	NO	NO	OK
Fine fescues (in blend)	OK	NO	NO	NO	OK
Hybrid Bermudagrass <sup>3</sup> (for sprigging see footnote 3)	OK	OK	OK	OK	OK
Kentucky bluegrass	OK	NO	NO	NO	OK
Perennial ryegrass	OK	OK	NO	NO	OK
Seashore paspalum <sup>3,4</sup> (for sprigging see footnote 3)	NO	NO	NO	OK	OK
Tall fescue	OK	OK	OK	OK	OK
Zoysiagrass <sup>3</sup> (for sprigging see footnote 3)	OK	OK	OK	OK	OK

<sup>1</sup> NOTE: No adjuvant or additive should be used when this product's applications are made on newly emerged turfgrass seedlings until 28 days after emergence. With the exception of seashore paspalum, an application of this product at a rate of 1.45 fl. oz./1000 sq. ft. (0.75 lb. ae) can be made to all other turfgrass species in Table 4.

<sup>2</sup> This product can be applied 7 days or greater prior to seeding.

<sup>3</sup> This product can be used any time prior to, at or after sprigging as indicated by turfgrass species in Table 4.

<sup>4</sup> 0.75 fl. oz. to 1.45 fl. oz./1000 sq. ft. (0.37 to 0.75 lb. ae/A) application can be made at times indicated in Table 4. Application of this product should be timed around the seeding operations using the above chart as a reference point.

<b>Table 5. Spot Spraying with This Product</b>		
<b>Spray Mix Volume (gallons)</b>	<b>This Product in Mix (tablespoons)</b>	<b>MSO Adjuvant in Mix (tablespoons)</b>
1	3	1
2	6	2
3	9	3
4	12	4

Apply at the rate of 1 gallon per 1000 sq. ft.  
1 tablespoon = 0.5 fl. oz. (0.26 lb. ae/A) of this product.

NOTES: For consistent results, make this product's application to newly germinated crabgrass, to 1-tiller crabgrass, and when crabgrass has matured to 5 tillers or greater.\*

\* Under certain conditions, applications of this product made to annual grasses 2 to 4 tiller may not provide complete control. A sequential application will be required for grass control in these situations.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

### PESTICIDE STORAGE

Keep pesticide in original container. Store in a cool, dry, secure place.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

[**Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Disposal (Container Handling) statements] **NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "No refillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

[**Note to Reviewer:** The bracketed section headers will be included when multiple container types / sizes are listed on the label.]

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[**Nonrefillable Containers 5 gallons or less:**] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[**Nonrefillable containers larger than 5 gallons:**] Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling if available. If recycling or reconditioning not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[**Refillable containers larger than 5 gallons:**] Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available. If recycling or reconditioning not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

### **WARRANTY DISCLAIMER**

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